

INTERNATIONAL SEARCH REPORT

Inventor's application No

PCT/EP 03/12272

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 55312 A (VIROTEX CORP) 4 November 1999 (1999-11-04) page 5, line 5 -page 6, line 19 page 9, line 12-25 page 10, line 2-4	1-14, 17, 18
Y	page 13, line 7-16	5
Y	page 18, line 21 -page 19, line 17	11-13, 15, 16
X	US 2002/142036 A1 (RUPPRECHT HERBERT ET AL) 3 October 2002 (2002-10-03) paragraph '0008! - paragraph '0026! examples 1-4	1-4, 6-18
Y	paragraph '0047!	5
Y	paragraph '0025! - paragraph '0026! --- -/--	15, 16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

29 March 2004

Date of mailing of the international search report

06/04/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Vermeulen, S

INTERNATIONAL SEARCH REPORT

Intern:

plication No

PCT/EP 03/12272

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 4 876 092 A (MIZOBUCHI TADAFUMI ET AL) 24 October 1989 (1989-10-24) column 1, line 5-17 column 2, line 63 -column 3, line 6 column 3, line 11-18 figures 1,2; examples 1-9 ---	1-10,14, 17,18 11-13
X Y	US 4 855 142 A (FANKHAUSER PETER ET AL) 8 August 1989 (1989-08-08) column 2, line 5-32 column 4, line 62 -column 5, line 22 example 5 ---	1-4, 7-10,14, 16-18 11-13
X	US 4 772 470 A (HORIUCHI TETUO ET AL) 20 September 1988 (1988-09-20) column 2, line 50 -column 3, line 2 column 5, line 3-8 column 8, line 18-44 ---	1-4, 6-10, 14-18
X	EP 0 275 550 A (TEIKOKU SEIYAKU KK) 27 July 1988 (1988-07-27) page 2, line 47-51 page 3, line 30 -page 4, line 3 ---	1-4, 6-10,14, 17,18
X	US 4 615 697 A (ROBINSON JOSEPH R) 7 October 1986 (1986-10-07) column 8, line 34-56 figures 3,7 ---	1-5
X	CUI ZHENGRONG ET AL: "Bilayer films for mucosal (genetic) immunization via the buccal route in rabbits" PHARMACEUTICAL RESEARCH (NEW YORK), vol. 19, no. 7, July 2002 (2002-07), pages 947-953, XP009028363 ISSN: 0724-8741 page 948 page 949, column 2 page 951, column 2 -page 952, column 1 ---	1-5,9, 10,14, 16-18
	--- -/--	

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP 03/12272

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>SOLOMONIDOU D ET AL: "Effect of carbomer concentration and degree of neutralization on the mucoadhesive properties of polymer films"</p> <p>JOURNAL OF BIOMATERIALS SCIENCE POLYMER EDITION, vol. 12, no. 11, 2001, pages 1191-1205, XP009028488 ISSN: 0920-5063 page 1192, last paragraph -page 1194, paragraph 3</p> <p>-----</p>	1-5,7,9, 10

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 03/12272

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

see additional sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

Box I.1

Although claims 17 and 18 relate to a method for treatment of the human or animal body, the search was carried out and was based on the stated effects of the compound or composition.

PCT Rule 39.1(iv) – methods for treatment of the human or animal body by therapy.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Application No

PCT/EP 03/12272

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9955312	A	04-11-1999	AU 746339 B2	18-04-2002
			AU 3967899 A	16-11-1999
			CA 2329128 A1	04-11-1999
			EP 1079813 A2	07-03-2001
			JP 2002512950 T	08-05-2002
			WO 9955312 A2	04-11-1999
US 2002142036	A1	03-10-2002	DE 19932603 A1	25-01-2001
			AU 769629 B2	29-01-2004
			AU 6151700 A	30-01-2001
			CA 2378768 A1	18-01-2001
			WO 0103917 A2	18-01-2001
			EP 1194133 A2	10-04-2002
			HU 0201788 A2	28-11-2002
			JP 2003504236 T	04-02-2003
			NZ 516955 A	26-09-2003
US 4876092	A	24-10-1989	JP 2000248 C	08-12-1995
			JP 7029915 B	05-04-1995
			JP 62178513 A	05-08-1987
US 4855142	A	08-08-1989	AU 1235088 A	01-09-1988
			DK 100488 A	28-08-1988
			EP 0283434 A2	21-09-1988
			JP 63227522 A	21-09-1988
			PT 86828 A , B	01-03-1988
US 4772470	A	20-09-1988	JP 1499619 C	29-05-1989
			JP 61249472 A	06-11-1986
			JP 63045829 B	12-09-1988
			JP 1499620 C	29-05-1989
			JP 61249473 A	06-11-1986
			JP 63045830 B	12-09-1988
			DE 3681754 D1	07-11-1991
			EP 0200508 A2	05-11-1986
EP 0275550	A	27-07-1988	CA 1327314 C	01-03-1994
			JP 2019709 C	19-02-1996
			JP 7044940 B	17-05-1995
			JP 63160649 A	04-07-1988
			EP 0275550 A1	27-07-1988
			US 4900554 A	13-02-1990
			DE 3785571 D1	27-05-1993
			DE 3785571 T2	12-08-1993
US 4615697	A	07-10-1986	CA 1260832 A1	26-09-1989
			US 4983392 A	08-01-1991
			US 5225196 A	06-07-1993
			AT 82667 T	15-12-1992
			AT 151286 T	15-04-1997
			AU 565354 B2	10-09-1987
			AU 3618484 A	03-06-1985
			DE 3485995 D1	07-01-1993
			DE 3485995 T2	09-06-1993
			DE 3486448 D1	15-05-1997
			DE 3486448 T2	09-10-1997
			EP 0163696 A1	11-12-1985
			EP 0501523 A1	02-09-1992

INTERNATIONAL SEARCH REPORT

Information on patent family members

Application No
PCT/EP 03/12272

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4615697	A	HK 121497 A	12-09-1997
		JP 8030004 B	27-03-1996
		JP 61500612 T	03-04-1986
		WO 8502092 A1	23-05-1985
		US 4795436 A	03-01-1989
<hr/>			